FEASTA

Project Phase I

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Table of Contents

Introduction

01

Introduction

Purpose

This document outlines the software requirements and specifications for FEASTA, an iOS and Android application that allows students of St. John's University to locate events around campus that offer free food.

This document will describe the features of the software and specify requirements needed to run the software and possible constraints.

Project Scope

This system will enable St. John's University students to locate events that are offering free food throughout the campus. FEASTA will use an active internet connection allowing organizations to post about their events in real time, as well as enable the guests ("diners") of the app to search for the food they are interested in.

Overall Description

02

Product Perspective

FEASTA will utilize a database that stores user (including diner and event promoter) and event information. It will allow a diner-user to login, select preferences, search for, view and comment on events. On the other hand, it allows promoter-users to post about and edit an event that has free food.

User Classes and Characteristics

- promoters and diners

Operating Environment

- Android 4.4 (KitKat, API 19) and iOS 11

Design and Implementation Constraints

Operating Environment

- Internet Connection

Use of FEASTA is dependent on an internet connection

- Up to Date Devices/OS

Use of FEASTA is dependent on a mobile device with a current operating system.

- Validity of Organization's Email Address

The only source we will rely on for organization verification is StormSync, In the worst case when the email address is not on StormSync, SWEET will attempt contacting the Student Government, Inc.

a. Student verification - If the user tries to sign up with a non .edu email, account creation will fail and access to the application will be denied.

b. Location Limits - At the time of this document's creation, FEASTA is only available for St. John's University - Queens Campus. Students from other campuses will not be able to view events taking place on their campus.

c. Organization verification - the Sweet team will have to check the email address that requested access against a list of known organization email addresses retrieved from an authority at St. John's.

d. Analytics - Unless a person has hosted more than 5 events, they will not have access to personalized data analytics. They will only be permitted to view a general dashboard.

System
Features

03

Features 1: Sign up

Description and Priority: The user will create an account with a valid stjohns.edu email. They will receive a confirmation email when signed up successfully. Otherwise, if address is not valid, they will see an error message denying app access

Data Flow: ➡ Open app – Log In / Sign Up ➡ Select Sign Up tab ➡ Enters SJU email and creates password, click Sign Up

Click 'Find me free food' button to app's homepage ⬅ Receive conformation email

Enters a non-valid email

Tap outside the message to re-attempt different email ⬅ See error message 'You are not eligible'

See error message 'This account already exists.' ⬅ Enter the existing SJU email

Tap outside the message to switch to Log In
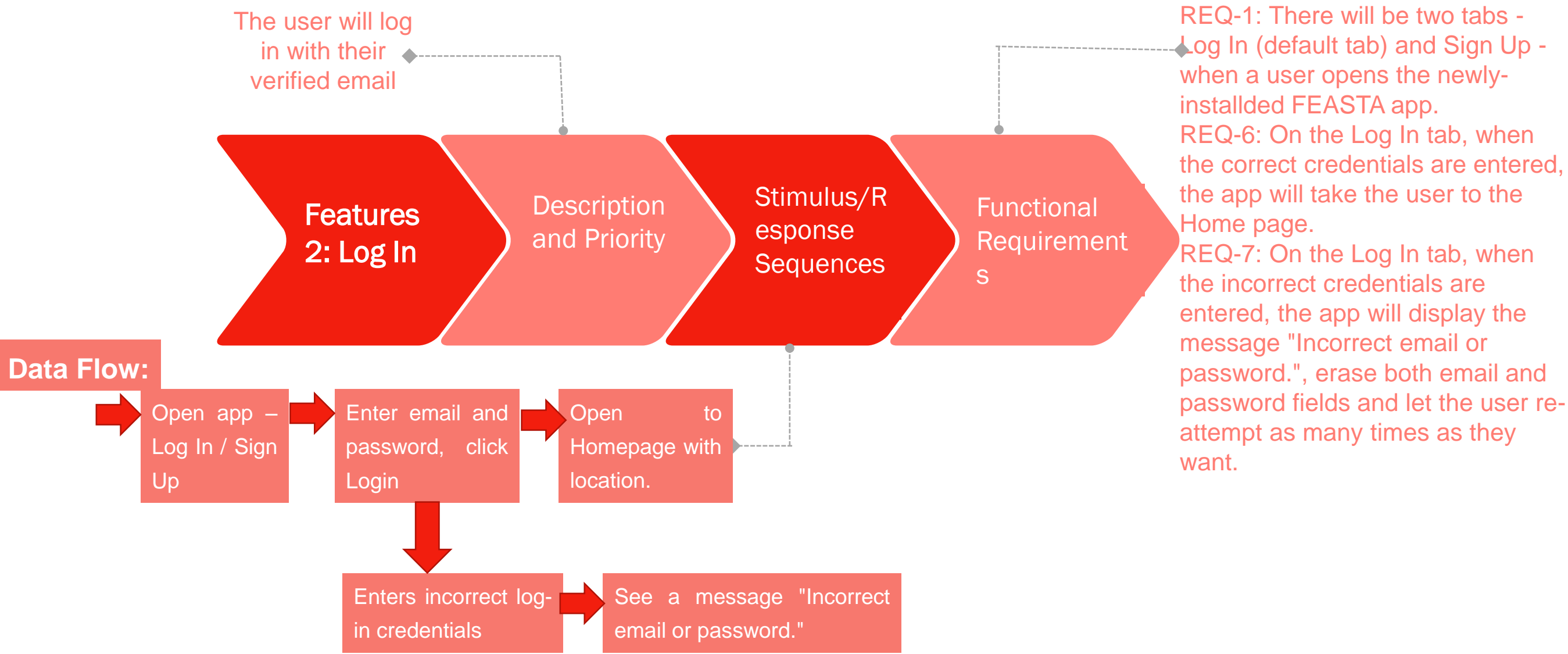
Functional Requirements

- REQ-1: There will be two tabs - Log In and Sign Up - when a user opens the newly-installded FEASTA app.
- REQ-2: The email address entered by the user will be verified to make sure it is an (1) existing and (2) stjohns.edu address.
- REQ-3: When the email address is valid, and is not associated with an existing FEASTA account, a new account in the system will be created for this user. A confirmation email is sent to user's inbox. The confirmation screen in the app will display the message "A confirmation email has been sent to you!" and a button "Find me free food" that will take user to the app's Home page.
- REQ-4: When the email address entered is not valid, the app will display an error message "You are not eligible to use this app. Must be a St. John's University student and must use a valid school address". The message will disappear when the user taps outside of it.
- REQ-5: When the account already exists, the app will display "This account already exists. Please sign in instead." The message will disappear when the user taps outside of it.

System Features

The user will log in with their verified email

REQ-1: There will be two tabs - Log In (default tab) and Sign Up - when a user opens the newly-installded FEASTA app.
REQ-6: On the Log In tab, when the correct credentials are entered, the app will take the user to the Home page.
REQ-7: On the Log In tab, when the incorrect credentials are entered, the app will display the message "Incorrect email or password.", erase both email and password fields and let the user re-attempt as many times as they want.

Features 2: Log In → **Description and Priority** → **Stimulus/Response Sequences** → **Functional Requirements**

Data Flow:

Open app – Log In / Sign Up → Enter email and password, click Login → Open to Homepage with location.

Enter email and password, click Login → Enters incorrect log-in credentials → See a message "Incorrect email or password."
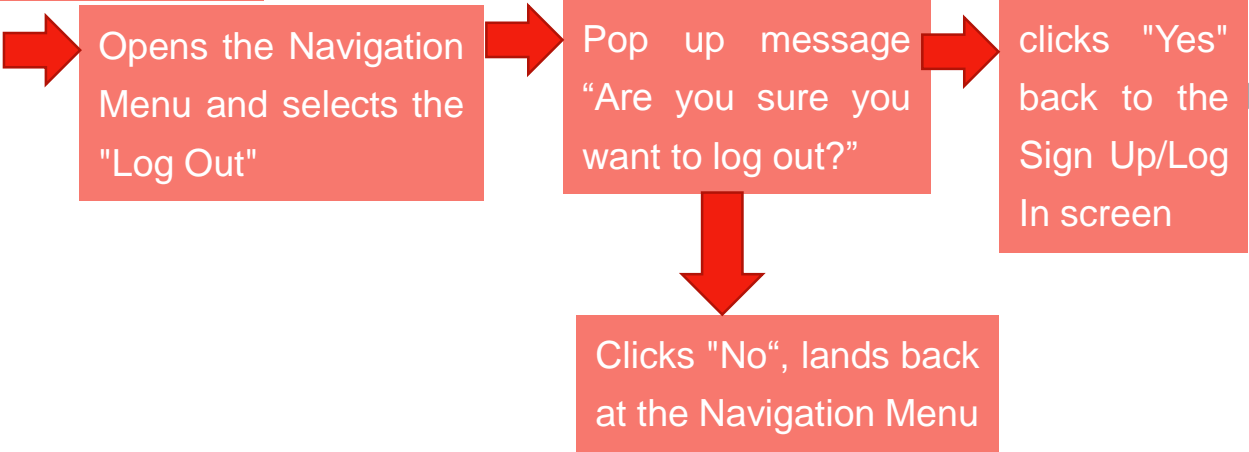
System Features

While logged in, the user can log out of the app anytime by opening the Navigation Menu and selecting the "Log Out" option. A message pop-up will ask user to confirm their action before actually logging them out.

REQ-8: The Navigation Menu has the "Log Out" option.
REQ-9: Before the user logs out, a message pop-up will ask the user to confirm their action "Are you sure you want to log out?" This pop-up has two clickable buttons "Yes" and "No"
REQ-10: When user confirms their log out action, they are taken to the Sign Up/Log In screen.

Features 3: Log Out

Description and Priority

Stimulus/Response Sequences

Functional Requirements

Data Flow:

Opens the Navigation Menu and selects the "Log Out"

Pop up message "Are you sure you want to log out?"

clicks "Yes" back to the Sign Up/Log In screen

Clicks "No", lands back at the Navigation Menu

System Features

REQ-11: The Home page displays names of buildings on campus. These names are tappable.

REQ-12: Tapping on one of the locations takes the user to the event feed. User can click Back to go back to the Home page.

REQ-13: The event list always displays events up to 11:59pm that day, sorted by time (most imminent first). Each entry in the list includes a thumbnail of the food image, the Event Name (most prominent info), time (start and end), room number, and diners' ratings (5 star scale).

The user will select a building on campus to see events taking place there

Features 4: Browse by location

Description and Priority

Stimulus/Response Sequences
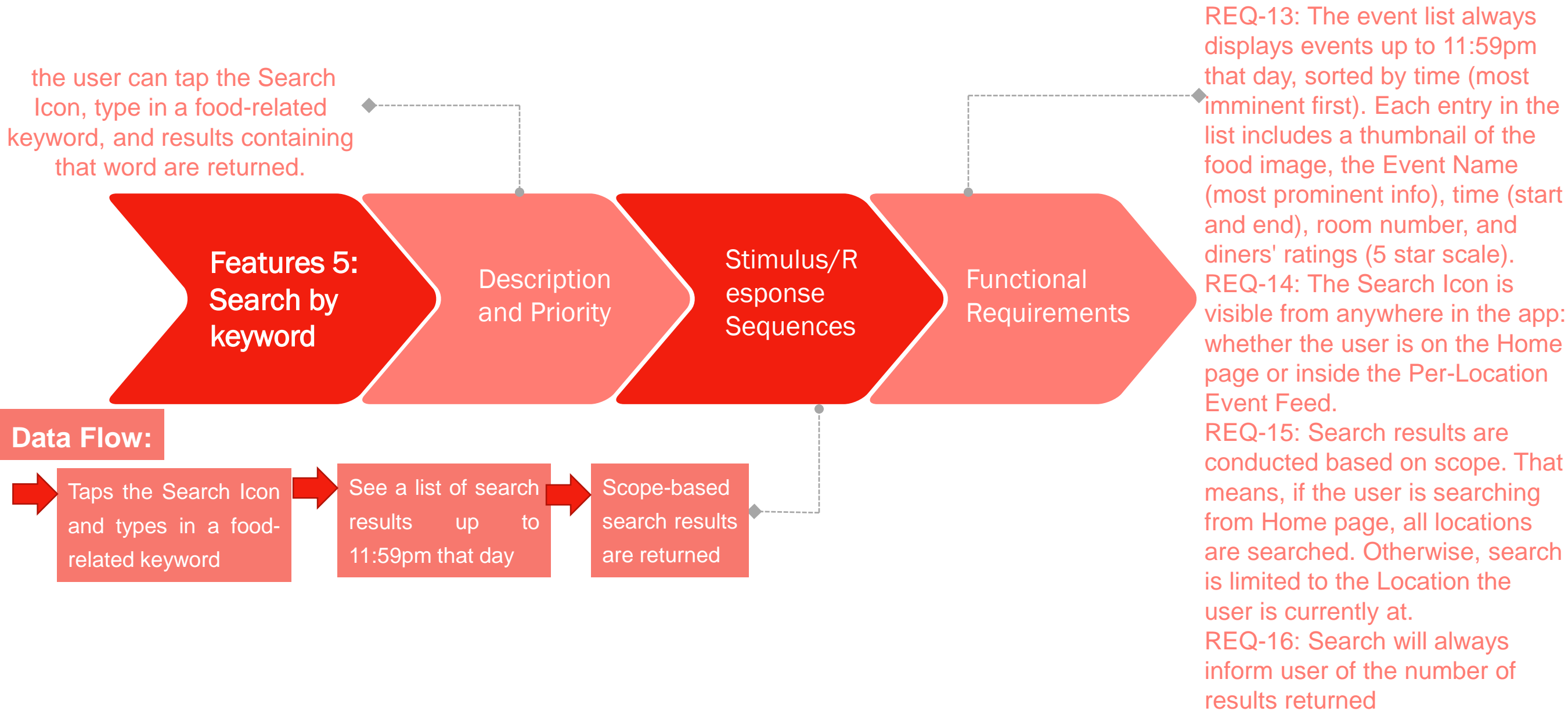
Functional Requirements

Data Flow:

Open app lands at the Home page that displays many names of buildings on campus

Tap locations to the event feed: a list of event entries.

Displays events up to 11:59pm that day, sorted by time

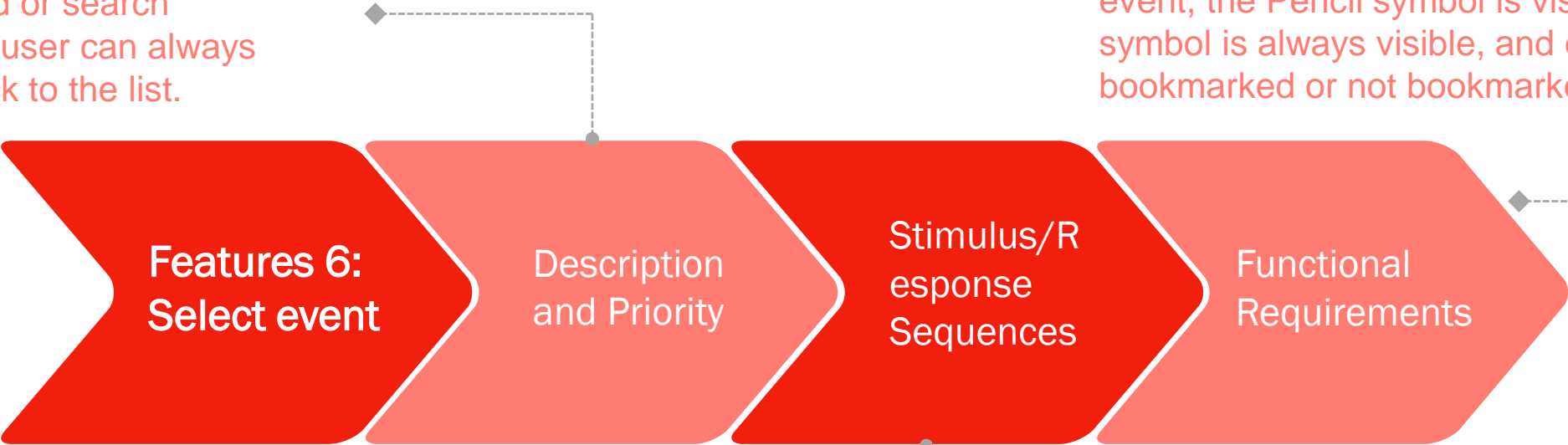Click Back to go back to the Home page.

System Features

the user can tap the Search Icon, type in a food-related keyword, and results containing that word are returned.

Features 5: Search by keyword

Description and Priority

Stimulus/Response Sequences

Functional Requirements

REQ-13: The event list always displays events up to 11:59pm that day, sorted by time (most imminent first). Each entry in the list includes a thumbnail of the food image, the Event Name (most prominent info), time (start and end), room number, and diners' ratings (5 star scale).

REQ-14: The Search Icon is visible from anywhere in the app: whether the user is on the Home page or inside the Per-Location Event Feed.

REQ-15: Search results are conducted based on scope. That means, if the user is searching from Home page, all locations are searched. Otherwise, search is limited to the Location the user is currently at.

REQ-16: Search will always inform user of the number of results returned

Data Flow:

Taps the Search Icon and types in a food-related keyword

➡ See a list of search results up to 11:59pm that day

➡ Scope-based search results are returned
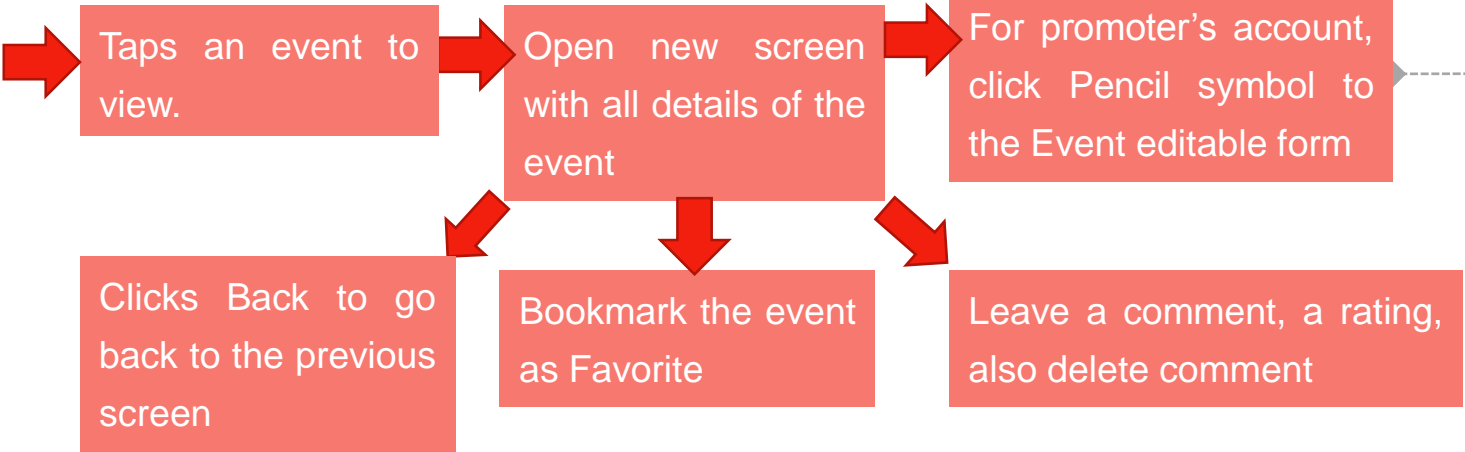
System Features

The user selects an event to view from the search results or location listings

The user taps an event from either the per-location feed or search results to view. The user can always click Back to go back to the list.

Features 6: Select event → **Description and Priority** → **Stimulus/Response Sequences** → **Functional Requirements**

Data Flow:

Taps an event to view. → Open new screen with all details of the event → For promoter's account, click Pencil symbol to the Event editable form

Clicks Back to go back to the previous screen

Bookmark the event as Favorite

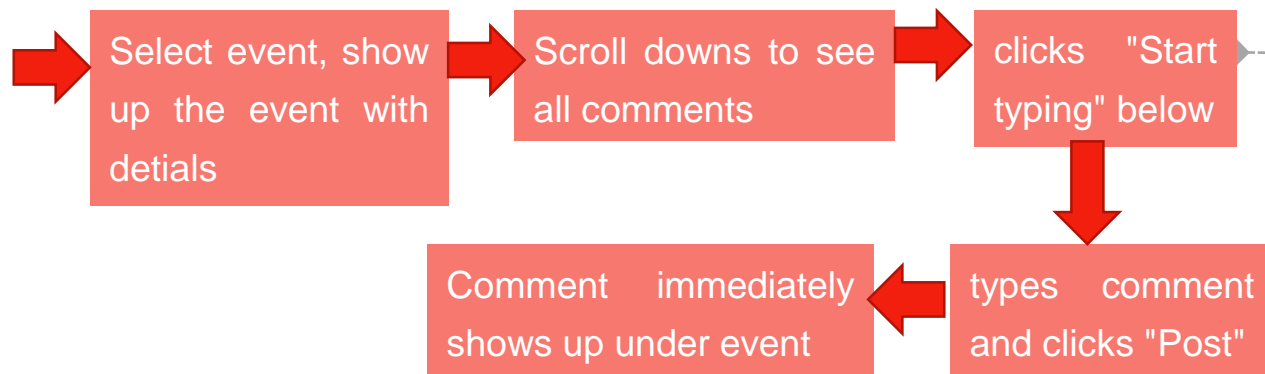Leave a comment, a rating, also delete comment

System Features

From the Event Detail screen, the user can give opinions or ask questions about an event

REQ-18: The clickable "Start typing" box is located below all comments (if any). When user clicks on it, they can start typing and clicks "Post" after done.

Features 7: Leave a comment

Description and Priority

Stimulus/Response Sequences

Functional Requirements

Data Flow:

Select event, show up the event with detials

Scroll downs to see all comments

clicks "Start typing" below

types comment and clicks "Post"

Comment immediately shows up under event

The user can delete or edit a comment that they posted

REQ-19: At their comment, user can slide left to view Delete and Edit options. Taping Delete will remove the comment immediately. Tapping Edit will allows user to type. User clicks "Post" after done typing to update the comment. Comment's timestamp is kept as original

Features 8: Delete/Edit Comment

Description and Priority

Stimulus/Response Sequences

Functional Requirements

Data Flow:

Select event, show up the event with detials

Scroll downs to see all comments

Slides left to view the Delete and Edit options

Taping Delete will remove the comment"

Tapping Edit will allows user to type. Clicks "Post" after done

System Features

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Features 9: Post/Edit event

Description and Priority

Stimulus/Response Sequences

Functional Requirements

- REQ-8: The Navigation Menu has the following options: "Set My Preferences", "Log Out", "About", "Post an Event", "View Analytics"
- REQ-20: When the user wants to post an event, the first screen will ask for the location. The next screen is an Editable form where user can type in event details check boxes for food type(s) turn on/off the Vegetarian toggle, post or select 1 food photo, including a 1-3 word description. After done, user can click "Publish" and get taken to the Event Detail screen, or click "Cancel" to dismiss their action.
- REQ-21: Clicking on the Pencil symbol will open the Event Editable form.

Data Flow:

Opens the Navigation Menu and selects "Post an Event"

Ask to select a location in new screen

Open new screen with the Editable form

Clicks on the Pencil symbol. Modify the post

Clicks "Publish" to save the changes, or click "Cancel" to dismiss their action.

Type in event detail
Check boxes for food type
turn on/off the Vegetarian toggle
post or select 1 food photo, including a 1-3 word description.
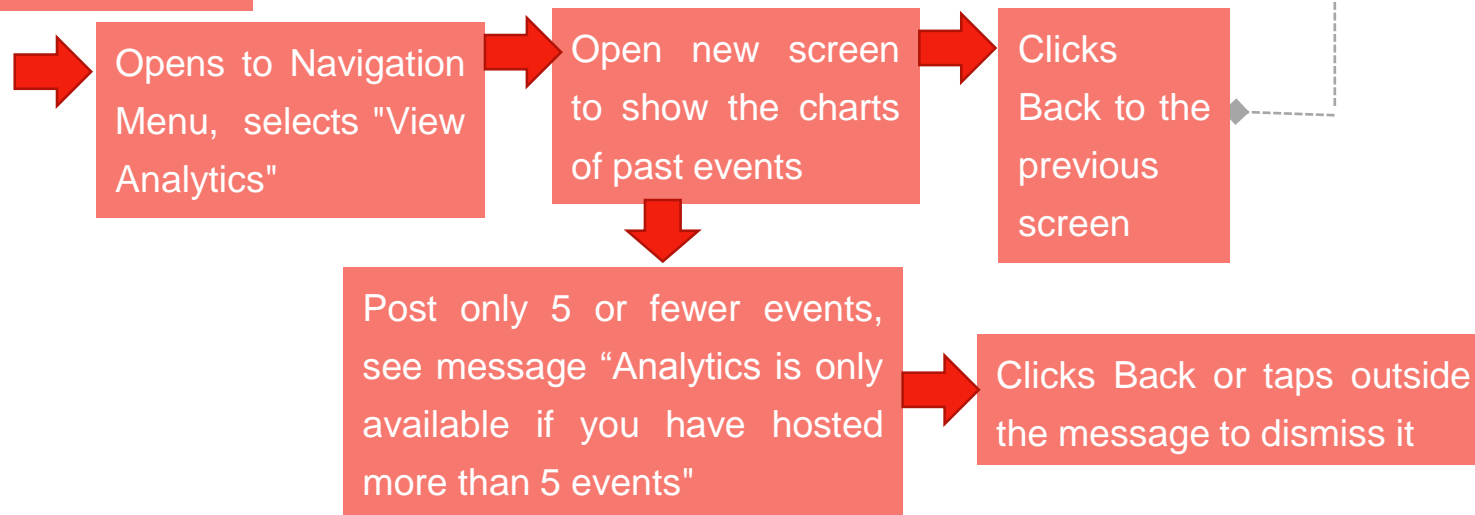
System Features

Promoter-users can have posted more than 5 events can view analytics.

REQ-8: The Navigation Menu has the following options: "Set My Preferences", "Log Out", "About", "Post an Event", "View Analytics" (the last two options are only visible to promoter's accounts).
REQ-22: If the user has posted more than 5 events, they will be able to see the charts of past events, showing aggregate event ratings by location, time, and food type. Otherwise, they will see the message pop-up "Analytics is only available if you have hosted more than 5 events." They can click Back or tap outside the message to dismiss it.

Features 10: View analytics

Description and Priority

Stimulus/Response Sequences

Functional Requirements

Data Flow:

Opens to Navigation Menu, selects "View Analytics"

Open new screen to show the charts of past events

Clicks Back to the previous screen

Post only 5 or fewer events, see message "Analytics is only available if you have hosted more than 5 events"

Clicks Back or taps outside the message to dismiss it

System Features

If the user has bookmarked an event before, the app will notified them 30 minutes before the event's start time.
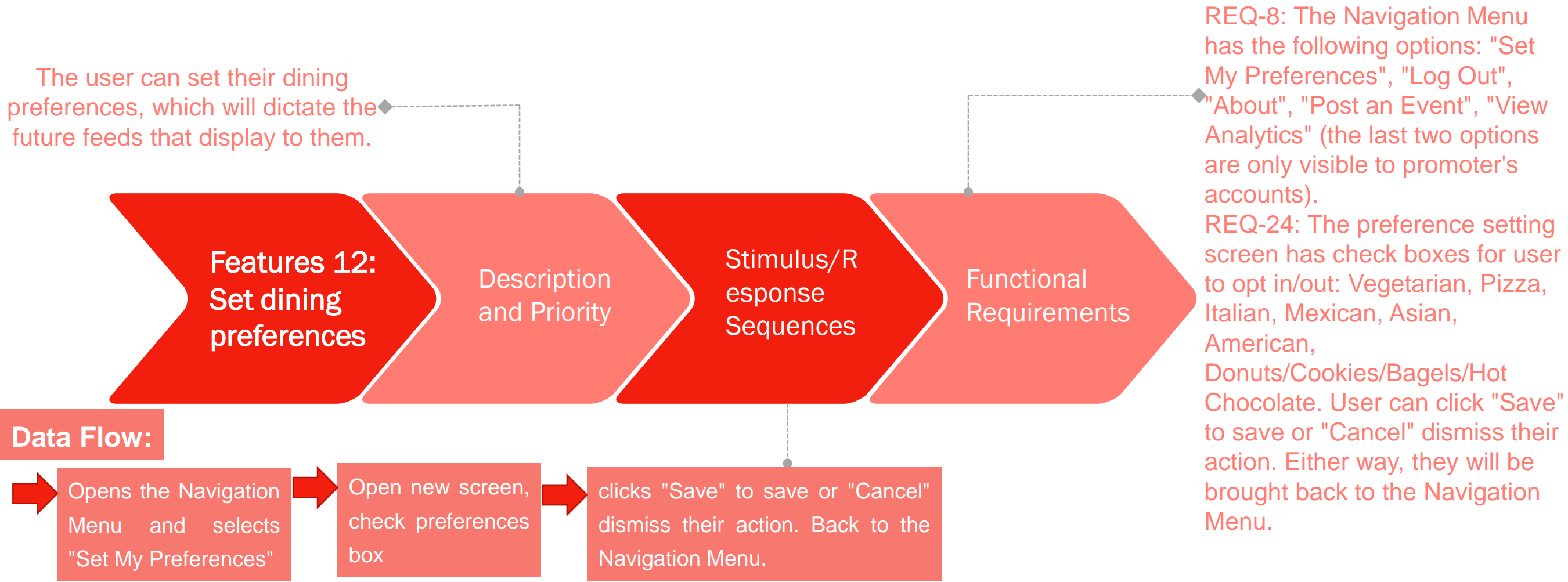
REQ-23: The app keeps track of user's bookmarks and sends a notificatoin to the user's phone system 30 minutes before the event's start time. When the user taps on the notification, the app will bring up the Event Detail page.

Features 11: Be notified of bookmark

Description and Priority

Stimulus/Response Sequences

Functional Requirements

Data Flow:

Sends a notification 30 mins before start

swipes up or down to view the notification. Tap it bring up the Event Detail page

System Features

The user can set their dining preferences, which will dictate the future feeds that display to them.

REQ-8: The Navigation Menu has the following options: "Set My Preferences", "Log Out", "About", "Post an Event", "View Analytics" (the last two options are only visible to promoter's accounts).

REQ-24: The preference setting screen has check boxes for user to opt in/out: Vegetarian, Pizza, Italian, Mexican, Asian, American, Donuts/Cookies/Bagels/Hot Chocolate. User can click "Save" to save or "Cancel" dismiss their action. Either way, they will be brought back to the Navigation Menu.

Features 12: Set dining preferences

Description and Priority

Stimulus/Response Sequences

Functional Requirements

Data Flow:

Opens the Navigation Menu and selects "Set My Preferences"

Open new screen, check preferences box

clicks "Save" to save or "Cancel" dismiss their action. Back to the Navigation Menu.

System Features

The user can rate the app, learn more about the app, or get help via an FAQs or direct email to the SWEET team.

REQ-8: The Navigation Menu has the following options: "Set My Preferences", "Log Out", "About", "Post an Event", "View Analytics" (the last two options are only visible to promoter's accounts).

REQ-25: Nested under "About" are Rate Us, Legal, Help, and Acknowledgements. Clicking on Rate Us will bring up the app page on Apple App Store or Google Play Store. Clicking on Legal will display Privacy, Terms of Service, and Cookie Policy documents. Clicking on Help will bring up a web-hosted FAQs, or bring up the default email app with SWEET's email address and email subject prefilled. Clicking on Acknowledgements will bring up a screen with all the open source licenses (if the SWEET team use any).

| Features 13: Access help | Description and Priority | Stimulus/Response Sequences | Functional Requirements |

Data Flow:

Opens the Navigation Menu and selects "About".

Open new screen

Click on "Acknowledgements", display all the open source licenses

Click on "Rate Us", bring to Apple App store or Google play store

Click on "Legal", check Privacy, Terms of Service Cookie Policy

Click on "Legal", brings up a web-hosted documentation or FAQs

External
Interface
Requirements

04

External Interface Requirements

User Interfaces

The interface for promoter user will be comprised of a main home page where the user can view all the free-food events, and the search box on top can filter the search result based on their food preferences. The homepage also contain a side menu which allow user the post the event and check the analytic

The diner user will have an interface based on similar design principles, but can only use the event post feature once being verified to be a promoter user.

Communications Interfaces

Internet connection is required to download the app to the user's mobile device. Connection to the Internet is also needed whenever the user uses the app because (s)he will be interacting with the online database.

The Law of Free Food:

$$Food\ Taste = \frac{Food\ Quality \times Hunger}{\$\$\ Cost}$$

JORGE CHAM © 2009

Other
Nonfunctional
Requirements

05

Performance Requirements

- App's cold start should not exceed … seconds.
- Search results are returned within … seconds.
- Event listings are updated every … minutes.

Security Requirements

- Only users with existing stjohns.edu email addresses can access.
- The "Edit an event" button is only available to the event's promoter,
- The "Contact the organization" button is NOT available to the event's promoter. It is only available if the event's promoter enables it when he/she creates this post.

Safety Requirements

- Disconnecting when posting
- Deleting or modifying an event is only available up to 30 minutes before the event's start-time,
- It is possible that two users might post about the same event, To prevent this kind of duplicate event postings

Legal Requirements - DON'T KNOW IF NEEDED

Things like benefits/contracts from SJU or SGI or orgs and stuff??

Thank You!

QUESTIONS?